

## CLAIMS

1. A method for transducing hematopoietic progenitor cells, comprising transducing the hematopoietic progenitor cells with exogenous genetic material in the presence of human mesenchymal stem cells.

2. The method of claim <sup>5</sup>~~1~~, wherein the mesenchymal stem cells are autologous to the hematopoietic progenitor cells.

3. The method of claim <sup>6</sup>~~2~~ wherein the mesenchymal stem cells are allogeneic to the hematopoietic progenitor cells.

4. The method of claim <sup>5</sup>~~1~~ further comprising separating the transduced human progenitor cells from the mesenchymal stem cells.

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A<sup>2</sup>